

CLAIMS

1. The combination comprising :
a structure;
a mass with predetermined inertia properties;
5 isolators connecting the structure and the mass in a hexapod configuration;
the mass and isolators being selected to provide tuned mass damping in all six degrees of freedom for the structure.
- 10 2. The combination described in claim 1, wherein:
the isolators comprise tubular damping struts with first and second spherical pivots at opposite ends of the tubular damping strut.
- 15 3. The combination comprising:
a structure;
a mass;
means for connecting the structure and the mass in a configuration
that permits the mass and isolators to be deterministically selected to
provide tuned mass damping in all six degrees of freedom for the
20 structure.

4. The combination described in claim 3, wherein the means compromises isolators arranged in a hexapod.

1. A system for controlling a robotic arm, comprising:
a. a base; and
b. a robotic arm mounted to the base, the robotic arm comprising:
i. a plurality of joints; and
ii. a plurality of actuators; and
c. a control system configured to control the robotic arm;
wherein the control system is configured to control the robotic arm such that the robotic arm is able to perform a task.